

WHAT IS CLAIMED IS:

1. A bell crank for a bicycle hub transmission comprising:
 a wire connecting bell crank member for connecting to a control wire;
 5 an actuator moving bell crank member for moving an actuating member; and
 an adjusting mechanism for adjusting a position of the wire connecting bell crank
 member relative to the actuator moving bell crank member.

2. The bell crank according to claim 1 wherein the wire connecting bell crank member
 10 and the actuator moving bell crank member rotate around a common axis.

3. The bell crank according to claim 2 wherein the adjusting mechanism adjusts a
 rotational angle of the wire connecting bell crank member relative to the actuator moving bell
 crank member.

4. The bell crank according to claim 1 wherein the wire connecting bell crank member
 15 includes a wire winding surface.

5. The bell crank according to claim 1 wherein the adjusting mechanism comprises an
 20 adjusting screw retained to one of the wire connecting bell crank member and the actuator
 moving bell crank member.

6. The bell crank according to claim 5 wherein the adjusting screw includes a screw
 25 end that provides a pressing force against the other one of the wire connecting bell crank
 member and the actuator moving bell crank member.

7. The bell crank according to claim 6 wherein the screw end contacts the other one of
 the wire connecting bell crank member and the actuator moving bell crank member.

8. The bell crank according to claim 6 wherein the adjusting screw includes a screw
 30 head, and further comprising a spring disposed around the screw between the screw head and
 the screw end.

9. The bell crank according to claim 6 wherein the adjusting screw includes a screw head, ~~and further comprising a screw turning cap contacting the screw head for rotating the screw.~~

5. *Fuller* 10. A bell crank mounting bracket for a bicycle hub transmission comprising:
a motor mounting bracket portion;
a transition bracket portion extending from the motor mounting bracket portion;
a rear frame mounting bracket portion extending from the transition bracket portion;
wherein the transition bracket portion is inclined relative to one of the motor
10 mounting bracket portion and the rear frame mounting bracket portion; and
a bell crank mounting member disposed on one of the transition bracket portion and
the rear frame mounting bracket portion.

11. The bracket according to claim 10 further comprising a front frame mounting
15 bracket portion extending from the motor mounting bracket portion.

20 *Fuller* 12. The bracket according to claim 11 wherein the front frame mounting bracket
portion extends downwardly from the motor mounting bracket portion.

13. The bracket according to claim 12 wherein the front frame mounting bracket
portion extends substantially perpendicular to the motor mounting bracket portion.

14. The bracket according to claim 10 wherein the ~~transition bracket portion is~~
~~inclined relative to the motor mounting bracket portion.~~

25 15. The bracket according to claim 10 wherein the rear frame mounting bracket
portion defines an opening for receiving an axle therethrough.

30 *Fuller* 16. The bracket according to claim 10 further comprising a wire guide disposed on the
transition bracket portion.

17. ~~The bracket according to claim 16 wherein the wire guide has a substantially U-~~

shape.

18. The bracket according to claim 10 wherein the a motor mounting bracket portion, the transition bracket portion and the rear frame mounting bracket portion are one-piece.

19. The bracket according to claim 10 wherein the transition bracket portion is inclined relative to the motor mounting bracket portion, and further comprising:

a front frame mounting bracket portion extending downwardly from the motor mounting bracket portion;

a wire guide disposed on the transition bracket portion; and

wherein the motor mounting bracket portion, the front frame mounting bracket portion, the transition bracket portion, the wire guide and the rear frame mounting bracket portion are one-piece.

20. A bell crank assembly comprising:

a mounting bracket including:

a motor mounting bracket portion;

a transition bracket portion extending from the motor mounting bracket portion;

a rear frame mounting bracket portion extending from the transition bracket portion;

wherein the transition bracket portion is inclined relative to one of the motor mounting bracket portion and the rear frame mounting bracket portion;

a bell crank mounting member disposed on one of the transition bracket portion and the rear frame mounting bracket portion;

a bell crank including:

a wire connecting bell crank member pivotably connected to the bell crank mounting member for connecting to a control wire;

an actuator moving bell crank member pivotably connected to the bell crank mounting member for moving an actuating member; and

an adjusting mechanism for adjusting a position of the wire connecting bell crank member relative to the actuator moving bell crank member.

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